, ... TENT COOPERATION TREA. . $^{\prime}$

	From th	e INTER	NATIONAL BL	IREAU
PCT	То:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 21 December 1998 (21.12.98)	BOULT WADE TENNANT 27 Furnival Street London EC4A IPQ ROYAUME-UNI			
Applicant's or agent's file reference SJA/47870/002		IMPO	RTANT NOTIF	FICATION
International application No. PCT/GB97/03317	1	_	ite (day/month/ye 1997 (03.12.9	· ·
The following indications appeared on record concerning: The applicant the inventor	the agen	t	the common	n representative
Name and Address RECKITT AND COLMAN PRODUCTS LIMITED One Burlington Lane London W4 2RW United Kingdom		State of Nationality GB Telephone No. Facsimile No.		
		Teleprinte	er No.	
2. The International Bureau hereby notifies the applicant that the the person the name X the add			s been recorded c	oncerning: the residence
Name and Address RECKITT AND COLMAN PRODUCTS LIMITED 67 Alma Road Windsor Berkshire SL4 3HD United Kingdom		State of N GB Telephon Facsimile	No.	State of Residence GB
3. Further observations, if necessary:				
4. A copy of this notification has been sent to: X the receiving Office the International Searching Authority X the International Preliminary Examining Authority	. [≓	signated Offices o	· ·
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized		Maria Victoria	CORTIELLO

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To:	

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

United States Patent and Trademark Office

(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)
22 June 1998 (22.06.98)

International application No. PCT/GB97/03317

International filing date (day/month/year)
03 December 1997 (03.12.97)

Applicant's or agent's file reference SJA/47870/002

Priority date (day/month/year)
04 December 1996 (04.12.96)

Applicant

McKECHNIE, Malcolm, Tom et al

	mand filed with the In	25 May 1998	*			MARKET CO.	ž.
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Form PCT/IB/331 (July 1992)

Facsimile No.: (41-22) 740.14.35

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N. Fischer

Telephone No.: (41-22) 338.83.38

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WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

A47L 13/40, B08B 6/00

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WO 98/24356

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PCT/GB97/03317

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(22) International Filing Date:

3 December 1997 (03.12.97)

(30) Priority Data:

9625664.9 9718934.4

4 December 1996 (04.12.96) GB 5 September 1997 (05.09.97)

GB

(71) Applicants (for all designated States except US): VERSITY OF SOUTHAMPTON [GB/GB]; Highfield, Southampton SO17 1BJ (GB). RECKITT AND COLMAN PRODUCTS LIMITED [GB/GB]; One Burlington Lane, London W4 2RW (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): McKECHNIE, Malcolm, Tom [GB/GB]; Spring Rise, 12A North Road, Lund, Driffield, East Yorkshire YO25 9TF (GB). GAYNOR, Paul, Terence [NZ/GB]; 23 Spring Crescent, Portswood, Southampton SO17 2FZ (GB). HUGHES, John, Farrell [GB/GB]; 2 Shepherd's Close, Bartley, Southampton SO40 2JL (GB). SWINGLER, Jonathan [GB/GB]; Morse Court, Flat 2, 6 New Road, Netley Abbey, Southampton SO31 5RR (GB).

(74) Agent: BOULT WADE TENNANT; 27 Furnival Street, London EC4A IPQ (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: METHOD FOR CONTROLLING AND REMOVING DUST AND OTHER PARTICLES FROM A MATERIAL

(57) Abstract

A method for controlling and removing dust and other fine particles in a material comprising i) electrostatically charging carrier particles in powder form to give the carrier particles a minimum charge to mass ratio of +/- 1x10-4C/kg, ii) delivering the electrostatically charged carrier particles to the material, whereby the dust and other fine particles in the material agglomerate with the charged carrier particles and iii) removing the resultant agglomerates from the material (for example by vacuuming or brushing). An apparatus for delivering electrostatically charged particles to a material, the apparatus comprising a) a container, in which particles to be electrostatically charged are stored and b) means for delivering the particles from the container to the carpet of fabric material, the delivery means comprising i) a tube or pipe for delivering the carrier particles to the carpet or fine fabric material; and ii) means for expelling particles at high velocity from the container to the material; the tube or pipe being made of such a material that, when carrier particles are passed down the delivery tube at high velocity, a minimum charge to mass ratio of +/- 1x10-4C/kg is imparted to the particles by the frictional contact of the particles on the inside of the tube or pipe.

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Int. Ional Application No PCT/GB 97/03317

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A. CLASS IPC 6	IFICATION OF SUBJECT MATTER A47L13/40 B08B6/00			
According t	o International Patent Classification(IPC) or to both national classific	ation and IPC		
	SEARCHED			
Minimum de IPC 6	ocumentation searched (classification system followed by classification A47L B08B	on symbols)		
	tion searched other than minimum documentation to the extent that s			
Electronic d	lata base consulted during the international search (name of data ba	ise and, where practical, search terms use	d)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category ³	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.	
А	WO 86 05962 A (ZOELL DIETER) 23 (1986 see abstract; figure 1	October	1,10,17, 18,23	
Α .	WO 96 23440 A (INCREA OY ;SEPPONE (FI)) 8 August 1996 see abstract see page 2, line 13 - page 3, line figures 1,2		1,10,17, 18,23	
Α	US 5 490 300 A (HORN PAUL E) 13 F 1996 see abstract see column 2, line 55 - line 60 see column 3, line 57 - column 4 figure 2	•	1,10,17, 18,23	
		,		
		-/		
X Furti	her documents are listed in the continuation of box C.	X Patent family members are listed	1 in annex.	
³ Special ca	tegories of cited documents:	"T" later document published after the int	ernational filing date	
consid "E" earlier o	ont defining the general state of the art which is not lered to be of particular relevance document but published on or after the international	or priority date and not in conflict wit cited to understand the principle or t invention "X" document of particular relevance; the	h the application but heory underlying the	
which citation	ont which may throw doubts on priority claim(s) or is cited to establish the publicationdate of another n or other special reason (as specified)	cannot be considered novel or cannot be considered novel or cannot vector of particular relevance; the cannot be considered to involve an i	locument is taken alone claimed invention	
other r	ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but ean the priority date claimed	carnot be considered to involve an inventive step when the document is combined with one or more other such docu- ments, such combination being obvious to a person skilled in the art. *8* document member of the same patent family		
	actual completion of theinternational search	Date of mailing of the international se		
_	0 March 1998	08/04/1998		
Name and n	nailing address of the ISA	Authorized officer		
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Cabral Matos, A		
	Fax: (+31-70) 340-3016	Cabi ai liacos, A		

Int .tional Application No PCT/GB 97/03317

		PC1/GB 97/03317
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
A	US 4 268 935 A (BESSINGER WALTER L) 26 May 1981 see abstract; figure 1	1,10,17, 18,23
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Information on patent family members

Int. .lional Application No PCT/GB 97/03317

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8605962 A	23-10-86	AU 5660486 A DE 3603041 A DE 3686223 A EP 0217834 A JP 6002257 B JP 62502804 T US 4751759 A	05-11-86 30-10-86 03-09-92 15-04-87 12-01-94 12-11-87 21-06-88
WO 9623440 A	08-08-96	FI 950388 A EP 0805644 A	31-07-96 12-11-97
US 5490300 A	13-02-96	NONE	
US 4268935 A	26-05-81	US 4240569 A CA 1134109 A CA 1147912 A	23-12-80 26-10-82 14-06-83

To: ALLARD, Susan Joyce BOULT WADE TENNANT 27 Furnival Street London EC4A 1PQ GRANDE BRETAGNE	Miss Allard	NOTIFICA INTERN EX	PCT 09/308860 ATION OF TRANSMITTAL OF NATIONAL PRELIMINARY AMINATION REPORT (PCT Rule 71.1) 1 3. 10. 98
Applicant's or agent's file reference SJA/47870/002		IMP	ORTANT NOTIFICATION
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/GB 97/03317	03/12/1997		04/12/1996
Applicant UNIVERSITY OF SOUT	HAMPTON et al.		

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international
 preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB;301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA;

European Patent Office D-80298 Munich

Tel. (+49-89) 2399-0, Tx: 523656 epmu d

Fax: (÷ 49-89) 2399-4465

Authorized officer

1 5 OCT 1998

MONKE WARE JENNAN

Telephone No (08/07/1998)

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPE/					
SJA/47870/002 International application No.	International filing date (day)	monthivear)	Priority date (day;month;year)			
PCT/GB 97/ 03317	03/12/1997		04/12/1996			
international Patent Classification (IPC) of	International Patent Classification (IPC) or national classification and IPC					
A	A47L13/40					
Applicant						
UNIVERSITY OF SOUTHAMPTO	N et al.					
been amended and are the ba	e applicant according to Article : I of sheets, including the state of the sheets including the sheet sheet including the sheet sheet sheet sheets including the sheet sheet sheet sheets including the sheet	36. g this cover shee of the descriptic containing recti	et. on, claims and/or drawings which have ifications made before this Authority			
These annexes consists of a total of			· · ·			
This report contains indications ar		to the following	items:			
I X Basis of the report II Priority						
III Non-establishment of o	pinion with regard to novelty, i	nventive step an	d industrial applicability			
IV Lack of unity of invent	ion					
V Reasoned statement un citations and explanation	der Article 35(2) with regard to ons supporting such statement	novelty, inventi	ve step or industrial applicability;			
VI Certain documents cite	d					
VII Certain defects in the in	nternational application					
VIII Certain observations o	n the international application					
Date of submission of the demand	Date	of completion	of this report			
25/05/1998		-	1 3. 10. 98			
Name and mailing address of the IPEA;	Auth	orized officer	1 1/2			
European Patent Office			1 ho Wegares			
D-80298 Munich Tel. (+49-89) 2399-0, Tx: 5236	556 epmu d	/	(h) V((con)			
Fax: (+ 49-89) 2399-4465		hone No.				
Form PCT/IPEA/409 (cover sheet) (Januar)	(1994) (08/07/199	98 J				

 This report has been drawn up on the basis of (Replacement sheets which have been furnished to the receiving Office in response to invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.) 						
	C	☑ the internati	onal application as originally filed			
	C] the descript	on, pages	, as originally filed		
			pages	, filed with the demand		
			pages	, filed with the letter of		
	C] the claims, i	Nos.	, as originally filed		
		1	Nos.	, as amended under Article 19		
		ı	Nos.	, filed with the demand		
		ı	Nos.	, filed with the letter of		
] the drawing:	s, sheets / fig.	, as originally filed		
			sheets / fig.	, filed with the demand		
			sheets / fig.	, filed with the letter of		
2.	The amen	dments have resu	lited in the cancellation of:			
	E	the descript	on, pages:			
] the claims, I	Nos.			
	C] the drawings	s, sheets / fig.			
3.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2 (c)).					

4. Additional observations, if necessary:

V. R asoned statement und r Articl 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations upporting such tatem nt

1. Statement

Novelty	Claims	1-23	YES
	Claims		NO
Inventive Step	Claims	1-23	YES
	Claims		NO
Industrial Applicability	Claims	1-23	YES
	Claims		NO

2. Citations and Explanations

No cited prior art shows or suggests method/apparatus for delivering electrostatically charged particles in the range set out in claims 1, 10, 17, 18, 23 (common subject-matter of these claims).

Page 1 problems may be overcome with such method/apparatus.

VII. C rtain defects in th international application

The following defects in the form or contents of the international application have been noted:

Claims should be in the two-part form based on e.g. one of the documents cited in the Search Report.

Reference should be included in the claims.

Documents cited in the Search Report should be discussed in the description.

It should be clear from the description:

- a) which prior art (document) forms the basis for the two-part form of claims
- b) how the presently-claimed invention differs from this nearest prior art
- c) what technical advantage this distinction brings.

The unit "microns" (page 16) should be replaced or supplemented by metric equivalents.

The term "Haze Carpet Freshener" used on page 18 appears to be a registered trade mark and should be identified as such.

Documents should be referred to by publication number (cf. page 4).

VIII. Certain obs rvations on th international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

> A single independent claim with a single set of dependent claims should be used in each category as opposed to the present multiple independent claims.

Independent claims in different categories should relate to a single invention; apparatus should be capable of carrying out all method steps.

The description should be consistent with the independent claim(s). (Cf. especially pages 1-12).

Any reference to the invention should only cite features from the independent claim(s).

The independent claim(s) should define sufficient features to ensure that an article/process is defined which fulfils all of the objects of the invention set out.



PCT

09/308860

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file refere	nce	FOR FURTHER	see Notification of	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
SJA/47870/002		ACTION	(FORM PC1/ISAV22	20) as well as, where applicable, item 5 below.
International application No.		International filing date (da	y/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 97/03317		03/12/19	97	04/12/1996
Applicant		<u></u>		
				-
UNIVERSITY OF SOUTH	IAMPTON	et al.		
This International Search Repaccording to Article 18. A copy				ority and is transmitted to the applicant
This International Search Rep [X] It is also accompanie		of a total of3 y of each priorart document	sheets. cited in this report.	•
1. Certain claims were	e found un:	searchable(see Box I).		
2. Unity of invention i	s lacking(s	ee Box II).		
				acid sequence listing and the
international search		I out on the basis of the sequ I with the international applic	-	
		ished by the applicant separ		national application,
				e effect that it did not include international application as filed.
	Tran	nscribed by this Authority		
4. With regard to the title,	χ the	text is approved as submitte	d by the applicant	
,	\equiv	text has been established by		ad as follows:
		·		
5. With regard to the abstrac	ot,			
	X the	text is approved as submitte	d by the applicant	
	Box		n one month from t	8.2(b), by this Authority as it appears in he date of mailing of this International
6. The figure of the drawing	s to be publ	ished with the abstract is:		
Figure No	as s	suggested by the applicant.		None of the figures.
	=	ause the applicant failed to s	_	
	beca	ause this figure better charac	terizes the invention	on.

International Application No PCT/GB 97/03317

A CL 4	COLETON		rc1/GB 9//0331/
IPC 6	SSIFICATION OF SUBJECT MATTER 6 A47L13/40 B08B6/00		
Accordin	ng to International Patent Classification(IPC) or to both national	Classification and IDC	
	DS SEARCHED	dassilication and IPC	
Minimum	documentation searched (classification system followed by classification system)	ssification symbols)	
IPC 6	5 A47L B08B	,	
Documen	ntation searched other than minimum documentation to the exte	nt that are but	
	and the external control in th	nt that such documents are included	d in the fields searched
Electronia	o debt have		
Electionic	c data base consulted during the international search (name of	data base and, where practical, sea	arch terms used)
0.000			
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT Citation of document with indication when a		
	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.
Α	WO 86 05962 A (ZOELL DIETER)	23 October	1,10,17,
	1986 see abstract; figure 1		18,23
A		••••	
^	WO 96 23440 A (INCREA OY ;SEP (FI)) 8 August 1996	PONEN RAIMO	1,10,17, 18,23
•	see abstract see page 2, line 13 - page 3,	line 14	10,23
	figures 1,2	ine 14;	
Α	US 5 490 300 A (HORN PAUL E)	13 February	1,10,17,
	1996 see abstract		18,23
	see column 2, line 55 - line 6	50	
	see column 3, line 57 - column figure 2	1 4, line 8;	,
		,	
		-/	
X Furth	her documents are listed in the continuation of box C.	X Patent family memb	ers are listed in annex.
Special cat	tegories of cited documents :	"T" later document published	
COLISION	ent defining the general state of the art which is not lered to be of particular relevance	cited to understand the	l after the international filing date n conflict with the application but principle or theory underlying the
ming a		"X" document of particular re	levance: the claimed invention
AALIICITE	nt which may throw doubts on priority claim(s) or is cited to establish the publicationdate of another a or other special reason (as specified)	involve an inventive step	ovel or cannot be considered to when the document is taken alone
O" docume	ent referring to an oral disclosure, use, exhibition or	document is combined w	levance; the claimed invention involve an inventive step when the vith one or more other such docu-
P" documer	nt published prior to the international filing date but an the priority date claimed	in the art.	n being obvious to a person skilled
	actual completion of theinternational search	"&" document member of the Date of mailing of the inte	
30) March 1998	08/04/1998	
ame and ma	ailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cabral Mate	os, A
PCT/ISA/210	0 (second sheet) (hdv 1992)		

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International Application No
PCT/GB 97/03317

ategory °	citation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
alegory *	Citation of document, with indication, where appropriate, of the relevant passages	nelevani to daim No.
	US 4 268 935 A (BESSINGER WALTER L) 26 May- 1981 see abstract; figure 1	1,10,17, 18,23
		·

Information on patent family members

International Application No
PCT/GB 97/03317

	T	1017	an 31/0331/
Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8605962 A	23-10-86	AU 5660486 A DE 3603041 A DE 3686223 A EP 0217834 A JP 6002257 B JP 62502804 T US 4751759 A	05-11-86 30-10-86 03-09-92 15-04-87 12-01-94 12-11-87 21-06-88
WO 9623440 A	08-08-96	FI 950388 A EP 0805644 A	31-07-96 12-11-97
US 5490300 A	13-02-96	NONE	
US 4268935 A	26-05-81	US 4240569 A CA 1134109 A CA 1147912 A	23-12-80 26-10-82 14-06-83
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